#### CLAIMS

What is claimed is:

- 1 1. A method of using a computer system to graphically
- 2 display search results, comprising:
- 3 sending a search request to a search engine, wherein the
- 4 search request includes a navigation location processed into a
- 5 format required by the search engine;
- 6 receiving search results from the search engine, wherein
- 7 the search results are proximal links related to the
- 8 navigation location, wherein the proximal links are related to
- 9 the search request;
- displaying the search results in a display area, wherein
- 11 the search results are represented as graphical shapes drawn
- 12 in the display area and at any given time represent data for a
- 13 time quantum, and wherein the graphical shapes reference data
- 14 and respond to user selections allowing a user to access
- 15 referenced data.
- 1 2. The method of claim 1, wherein the proximal links
- 2 may be at least one navigation location.
- 1 3. The method of claim 1, wherein the proximal links
- 2 may be a subweb.

- 1 4. The method of claim 1, wherein the received proximal
- 2 links are provided to an output target.
- 1 5. The method of claim 1, wherein the graphical shapes
- 2 are grouped by the inter-relatedness of the data referenced by
- 3 the graphical shapes.
- 1 6. The method of claim 5, wherein the inter-relatedness
- 2 of the data is represented by graphical shapes, wherein
- 3 subsequent data containing references within the scope of
- 4 primary data are represented by subsequent graphical shapes
- 5 that are enveloped by primary graphical shapes.
- The method of claim 5, wherein the inter-relatedness
- 2 of the data is represented by graphical shapes, wherein
- 3 subsequent data containing no references within the scope of
- 4 primary data are represented by subsequent graphical shapes
- 5 that do not intersect and are not enveloped by primary
- 6 graphical shapes.

- 1 8. A system of using a computer to graphically display
- 2 search results, comprising:
- means to send a search request to a search engine,
- 4 wherein the search request includes a navigation location
- 5 processed into a format required by the search engine;
- 6 means to receive search results from the search engine,
- 7 wherein the search results are proximal links related to the
- 8 navigation location, wherein the proximal links are related to
- 9 the search request;
- means to display the search results in a display area,
- 11 wherein the search results are represented as graphical shapes
- 12 drawn in the display area and at any given time represent data
- 13 for a time quantum, and wherein the graphical shapes reference
- 14 data and respond to user selections allowing a user to access
- 15 referenced data.
- 1 9. The system of claim 8, wherein the proximal links
- 2 may be at least one navigation location.
- 1 10. The system of claim 8, wherein the proximal links
- 2 may be a subweb.
- 1 11. The system of claim 8, wherein the received proximal
- 2 links are provided to an output target.

- 1 12. The system of claim 8, wherein the graphical shapes
- 2 are grouped by the inter-relatedness of the data referenced by
- 3 the graphical shapes.
- 1 13. The system of claim 12, wherein the inter-
- 2 relatedness of the data is represented by graphical shapes,
- 3 wherein subsequent data containing references within the scope
- 4 of primary data are represented by subsequent graphical shapes
- 5 that are enveloped by primary graphical shapes.
- 1 14. The system of claim 8, wherein the inter-relatedness
- 2 of the data is represented by graphical shapes, wherein
- 3 subsequent data containing no references within the scope of
- 4 primary data are represented by subsequent graphical shapes
- 5 that do not intersect and are not enveloped by primary
- 6 graphical shapes.

- 1 15. A method of using a computer system for searching
- 2 for relevant data, comprising:
- 3 receiving a search request from a user, wherein the
- 4 search request includes a search subject and navigation
- 5 location;
- 6 processing the search request into a format required by a
- 7 search engine;
- 8 sending the processed search request to the search
- 9 engine, wherein the processed search request is processed for
- 10 the search engine;
- 11 receiving search results, which are proximal links,
- 12 wherein the proximal links are related to the navigation
- 13 location from the search request;
- determining which proximal links are relevant, wherein
- 15 relevant links are those that are related to the search
- 16 subject of the search request; and
- 17 transmitting the search results to the user.
- 1 16. The method of claim 15, further comprising
- 2 determining if too many proximal links have been found.

1

PATENT APPLICA	ATION					EXPRESS	Mail Label No.: EL 762530722 U
17.	The	method	of	claim	15,	further	comprising

- 2 processing relevant links for output if not too many proximal
- 3 links have been found.
- 1 18. The method of claim 15, further comprising providing
- 2 the relevant links to an output target.
- 1 19. The method of claim 18, wherein the output target is
- 2 for is a temporal user interface.
- 1 20. The method of claim 15, wherein the proximal links
- 2 may be at least one navigation location.
- 1 21. The method of claim 15, wherein the proximal links
- 2 may be a subweb.

- 1 22. A system of using a computer to search for
- 2 information, comprising:
- means to obtain a query, wherein the query includes a
- 4 search subject and navigation location;
- 5 means to process the navigation location into a format
- 6 required by a search engine;
- 7 means to provide the search engine with a location
- 8 request, wherein the location request is the processed
- 9 navigation location;
- 10 means to obtain navigation location related proximal
- 11 links, wherein the location proximal links are related to the
- 12 location request;
- means to process the location proximal links for
- 14 relevance; and
- means to identify subject links related to the search
- 16 subject from the processed location proximal links.
- 1 23. The system of claim 22, further comprising means to
- 2 determine if an expanse breach has occurred.
- 1 24. The system of claim 22, further comprising means to
- 2 process the identified subject links for output if no expanse
- 3 breach occurred.

- 1 25. The system of claim 22, further comprising means to
- 2 provide the processed proximal links to an output target.
- 1 26. The system of claim 25, wherein the output target is
- 2 for is a temporal user interface.
- 1 27. The system of claim 22, wherein the proximal links
- 2 may be at least one navigation location.
- 1 28. The system of claim 22, wherein the proximal links
- 2 may be a subweb.
- 1 29. A method of using a computer to display help
- 2 information, comprising:
- 3 monitoring function execution;
- 4 storing a current system state;
- 5 determining what functions have been executed by
- 6 examining latest stored system states if a request for help
- 7 has been made;
- 8 displaying help information based on the functions that
- 9 have been last executed.
- 1 30. The method of claim 29, further comprising
- 2 determining if the last executed function has been made by
- 3 mistake.

1 31. The method of claim 30, wherein the determination

- 2 that the last executed function has been made by mistake is
- 3 made by a user engaging an undo function.
- 1 32. The method of claim 29, further comprising
- 2 instantiating a latest stored system state the last executed
- 3 function has been made by mistake.
- 1 33. An interaction computer interface invocable by an
- 2 application program responsive to user selections to invoke
- 3 application module commands, comprising:
- 4 an information pool;
- 5 information clouds, wherein the information clouds are
- 6 data structures referencing information;
- 7 information crystals, wherein the information crystals
- 8 reference information in information clouds and form at a
- 9 passing of a temporal quantum;
- information raindrops, wherein the information raindrops
- 11 are information crystals that form in an information pool.
- 1 34. The interface of claim 33, wherein a liquid graphic
- 2 transformation effect is applied to the information pool.
- 1 35. The interface of claim 33, wherein the information
- 2 pool is displayed in a window.

- 1 36. The interface of claim 33, wherein a highlighted
- 2 portion of the information pool is displayed as a subview.
- 1 37. The interface of claim 33, wherein the information
- 2 pool includes a pool bottom.
- 1 38. The interface of claim 37, wherein the pool bottom
- 2 displays multimedia.
- 1 39. The interface of claim 37, wherein the pool bottom
- 2 displays advertising.
- 1 40. The interface of claim 33, wherein the information
- 2 pool displays temporal information.
- 1 41. The interface of claim 33, wherein the information
- 2 clouds reference information from a data analyzer.
- 1 42. The interface of claim 33, wherein the information
- 2 crystals reference navigation locations.
- 1 43. The interface of claim 33, wherein the information
- 2 crystals reference subjects.
- 1 44. The interface of claim 33, wherein the information
- 2 crystals reference multimedia.

- 1 45. The interface of claim 33, wherein the information
- 2 crystals reference a number representing how many alternate
- 3 navigation locations refer to a particular navigation
- 4 location.
- 1 46. The interface of claim 33, wherein the information
- 2 raindrops visually appear as analogue to real world raindrops
- 3 falling into a pool.
- 1 47. The interface of claim 33, wherein groups of
- 2 raindrops represent groups of data in a subweb.
- 1 48. The interface of claim 33, wherein the appearance of
- 2 a raindrop may vary based on specified criteria.
- 1 49. The interface of claim 33, wherein the appearance of
- 2 a raindrop may vary in color.
- 1 50. The interface of claim 33, wherein the appearance of
- 2 a raindrop may vary in size.
- 1 51. The interface of claim 33, wherein the appearance of
- 2 a raindrop may vary in thickness.
- 1 52. The interface of claim 33, wherein the appearance of
- 2 a raindrop may vary in transparency.

1 53. The interface of claim 33, wherein the appearance of

- 2 a raindrop may be complimented with complementary dynamic
- 3 visual cues.
- 1 54. The interface of claim 48, wherein a specified
- 2 criterion is the type of a document.
- 1 55. The interface of claim 48, wherein a specified
- 2 criterion is a size of a document.
- 1 56. The interface of claim 48, wherein a specified
- 2 criterion is a number representing how many alternate
- 3. navigation locations refer to a particular navigation
- 4 location.
- 1 57. The interface of claim 48, wherein a specified
- 2 criterion is a number of multimedia files at a navigation
- 3 location.
- 1 58. The interface of claim 48, wherein a specified
- 2 criterion is staleness of a link.
- 1 59. The interface of claim 48, wherein a specified
- 2 criterion is a media content type.
- 1 60. The interface of claim 48, wherein a specified
- 2 criterion is a subject relevancy ranking.

- 1 61. The interface of claim 48, further comprising a
- 2 dynamic mapping and search selection facility.
- 1 62. The interface of claim 61, wherein the search
- 2 selection facility allows modification of the specified
- 3 criteria.
- 1 63. The interface of claim 33, further comprising a time
- 2 line facility.
- I 64. The interface of claim 33, further comprising an
- 2 interpretive help tool.
- 1 65. The interface of claim 33, further comprising a
- 2 focus box.
- 66. The interface of claim 33, further comprising a
- skimming pebble facility.

- 1 67. A method of using a computer to display data,
- 2 comprising:
- 3 displaying an information pool;
- 4 receiving information from a data source;
- 5 generating information clouds, wherein the information
- 6 clouds are data structures referencing information obtained
- 7 from the data source:
- 8 generating information crystals, wherein the information
- 9 crystals reference information in information clouds and form
- 10 at a passing of a temporal quantum; and
- displaying information raindrops, wherein the information
- 12 raindrops are information crystals that form in an information
- 13 pool.
  - 1 68. The method of claim 67, wherein the data source is a
- 2 data analyzer.
- 1 69. The method of claim 67, further comprising applying
- 2 a liquid graphic transformation effect to the information
- 3 pool.
- 1 70. The method of claim 67, wherein the information pool
- 2 is displayed in a window.

- 1 71. The method of claim 67, wherein a highlighted
- 2 portion of the information pool is displayed as a subview.
- 1 72. The method of claim 67, wherein the information pool
- 2 includes a pool bottom.
- 1 73. The method of claim 72, further comprising
- 2 displaying multimedia in the pool bottom.
- 1 74. The method of claim 72, further comprising
- 2 displaying advertising in the pool bottom.
- 1 75. The method of claim 67, further comprising
- 2 displaying temporal information in the information pool.
- 1 76. The method of claim 67, wherein the information
- 2 clouds obtain information from a data analyzer.
- 1 77. The method of claim 67, wherein the information
- 2 crystals reference navigation locations.
- 1 78. The method of claim 67, wherein the information
- 2 crystals reference subjects.
- 1 79. The method of claim 67, wherein the information
- 2 crystals reference multimedia.

- 1 80. The method of claim 67, wherein the information
- 2 crystals reference a number representing how many alternate
- 3 navigation locations refer to a particular navigation
- 4 location.
- 1 81. The method of claim 67, wherein the information
- 2 raindrops visually appear as analogue to real world raindrops
- 3 falling into a pool.
- 1 82. The method of claim 67, wherein groups of raindrops
- 2 represent groups of data in a subweb.
- i 83. The method of claim 67, wherein the appearance of a
- 2 raindrop may vary based on specified criteria.
- 1 84. The method of claim 67, wherein the appearance of a
- 2 raindrop may vary in color.
- 1 85. The method of claim 67, wherein the appearance of a
- 2 raindrop may vary in size.
- 1 86. The method of claim 67, wherein the appearance of a
- 2 raindrop may vary in thickness.
- 1 87. The method of claim 67, wherein the appearance of a
- 2 raindrop may be complimented with complementary dynamic visual
- 3 cues.

- 1 88. The method of claim 67, wherein the appearance of a
- 2 raindrop may vary in translucency.
- 1 89. The method of claim 83, wherein a specified
- 2 criterion is the type of a document.
- 1 90. The method of claim 83, wherein a specified
- 2 criterion is a size of a document.
- 1 91. The method of claim 83, wherein a specified
- 2 criterion is a number representing how many alternate
- 3 navigation locations refer to a particular navigation
- 4 location.
- 1 92. The method of claim 83, wherein a specified
- 2 criterion is a number of multimedia files at a navigation
- 3 location.
- 1 93. The method of claim 83, wherein a specified
- 2 criterion is staleness of a link.
- 1 94. The method of claim 83, wherein a specified
- 2 criterion is a media content type.
- 1 95. The method of claim 83, wherein a specified
- 2 criterion is a subject relevancy ranking.
- 1 96. The method of claim 83, further comprising a dynamic
- 2 mapping and search selection facility.

PATENT APPLICATION	EXPRESS MAIL LABEL NO.: EL 762530722 US

- 1 97. The method of claim 96, wherein the search selection
- 2 facility allows modification of the specified criteria.
- 1 98. In memory, an interaction interface invocable by an
- 2 application program responsive to user selections to invoke
- 3 application module commands, comprising:
- 4 a graphical shape to represent temporal information;
- 5 a display area to display the graphical shapes,
- 6 wherein the graphical shapes drawn in the display
- 7 area at any given time represent data for a time quantum,
- 8 wherein the graphical shapes reference data and
- 9 respond to user selections allowing a user to access
- 10 referenced data:
- a temporal selection facility to specify any given time
- 12 quantum in a chronological data set responsive to user
- 13 selections,
- 14 wherein the temporal selection facility is disposed
- 15 in communication with the display area such that user
- 16 selections specifying a time quantum instruct the display area
- 17 to display temporal information for a specified time quantum
- 18 from a chronological data set.

- 1 99. The interface of claim 98, wherein a liquid graphic
- 2 transformation effect is applied to the display area.
- 1 100. The interface of claim 98, wherein the display area
- 2 is displayed in a window.
- 1 101. The interface of claim 98, wherein a highlighted
- 2 portion of the display area is displayed as a subview.
- 1 102. The interface of claim 98, wherein the display area
- 2 includes a lower display layer.
- 1 103. The interface of claim 102, wherein the lower
- 2 display layer displays multimedia.
- 1 104. The interface of claim 102, wherein the lower
- 2 display layer displays advertising.
- 1 105. The interface of claim 98, wherein the display area
- 2 displays temporal information.
- 1 106. The interface of claim 98, wherein the chronological
- 2 data set is obtained from a data analyzer.
- 1 107. The interface of claim 98, wherein the data the
- 2 shapes reference navigation locations.
- 1 108. The interface of claim 98, wherein the data the
- 2 shapes reference multimedia.

- 1 109. The interface of claim 98, wherein the shapes
- 2 reference data from a chronological data set.
- 1 110. The interface of claim 98, wherein the shapes
- 2 visually appear as analogue to real world raindrops falling
- 3 into a pool.
- 1 111. The interface of claim 98, wherein groups of shapes
- 2 represent groups of data in a subweb.
- 1 112. The interface of claim 98, wherein the appearance of
- 2 a shape may vary based on specified criteria.
- 1 113. The interface of claim 98, wherein the appearance of
- 2 a shape may vary in color.
- 1 114. The interface of claim 98, wherein the appearance of
- 2 a shape may vary in size.
- 1 115. The interface of claim 98, wherein the appearance of
- 2 a shape may vary in thickness.
- 1 116. The interface of claim 98, wherein the appearance of
- 2 a shape may vary in transparency.
- 1 117. The interface of claim 98, wherein the appearance of
- 2 a shape may be complimented with complementary dynamic visual
- 3 cues.

- 1 118. The interface of claim 112, wherein a specified
- 2 criterion is the type of a document.
- 1 119. The interface of claim 112, wherein a specified
- 2 criterion is a size of a document.
- 1 120. The interface of claim 112, wherein a specified
- 2 criterion is a number representing how many alternate
- 3 navigation locations refer to a particular navigation
- 4 location.
- 1 121. The interface of claim 112, wherein a specified
- 2 criterion is a number of multimedia files at a navigation
- 3 location.
- 1 122. The interface of claim 112, wherein a specified
- 2 criterion is staleness of a link.
- 1 123. The interface of claim 112, wherein a specified
- 2 criterion is a media content type.
- 1 124. The interface of claim 112, wherein a specified
- 2 criterion is a subject relevancy ranking.
- 1 125. The interface of claim 98, further comprising a
- $2\,$  dynamic mapping and search selection facility.

- 1 126. The interface of claim 125, wherein the search
- 2 selection facility allows modification of the specified
- 3 criteria.
- 1 127. The interface of claim 98, further comprising an
- 2 interpretive help tool.
- 1 128. The interface of claim 98, further comprising a
- 2 focus box.
- 1 129. The interface of claim 98, further comprising a
- 2 skimming pebble facility.
- 1 130. The interface of claim 98, wherein the graphical
- 2 shapes are grouped by the inter-relatedness of the data
- 3 referenced by the graphical shapes.
- 1 131. The interface of claim 130, wherein the inter-
- 2 relatedness of the data is represented by graphical shapes,
- 3 wherein subsequent data containing references within the scope
- 4 of primary data are represented by subsequent graphical shapes
- 5 that are enveloped by primary graphical shapes.

- 1 132. The interface of claim 130, wherein the inter-
- 2 relatedness of the data is represented by graphical shapes,
- 3 wherein subsequent data containing no references within the
- 4 scope of primary data are represented by subsequent graphical
- 5 shapes that do not intersect and are not enveloped by primary
- 6 graphical shapes.
- 1 133. The interface of claim 130, wherein the inter-
- 2 relatedness of the data is represented by graphical shapes,
- 3 wherein subsequent data containing some references within the
- 4 scope of primary data and some references outside the scope of
- 5 primary data are represented by subsequent graphical shapes
- 6 that intersect with primary graphical shapes.